Nordic Information Technology Organisation's

IT-Företagen
Association of the Swedish IT and Telecom Industry
www.itforetagen.se
Sweden

IKT NORGE
Norwegian IT-companies Organisation
www.ikt-norge.no
Norway

IT-Brancheforeningen Kontor & Data
www.itb.dk
Denmark

ECO Declaration

Information Technology (IT) Products

July 2000

This declaration covers the following product(s) with specified product identity (ID), type/model numbers: Each marked product category must be identified below				
☐ Computer system unit (CPU)	☐ CRT display/ monitor	☐ LCD display/ monitor	☐ Keyboard	☐ Mobile/portable computer
☐ Server	☐ Copier*	☐ Laser printer*	☐ Inkjet printer*	☐ Matrix printer*
☐ Fax*	☐ Scanner*	☐ Multifunction product*, specify:		
☒ Other product, specify: Disk System Storage Enclosure				
*) pages per minute:	bl/w: N/A colour: N/A			
Model/type/sales name:	**Disk System 2300 (A6490A/AZ/AE/AD/ED)**			
Please use separate ECO declarations for telecommunication equipment.				

Brand hp invent	Manufacturer Hewlett-Packard Co	
Manufacturer's representative Alicia Mercer, HP Roseville, USA	Contact person Hans Wendschlag, HP Sweden	
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Additional information Version: April 10th, 2003		

CONDITIONS FOR DECLARATION USE

(excerpts from the contract text, for full text, see the "ECO Declaration Guideline"):

Any company wishing to use this declaration must meet the following requirements:

- sign a contract with one or more of the Nordic IT Organisations and pay the service fee
- state compliance to the specific requirements, only if this can be verified via certificates, test reports or signed documents
- the declaration must be completed in accordance with the instructions given in the "ECO Declaration Guideline".
- respond to all obligatory requirements marked with an "**O**" (response required), "**O(§)**" (response required by law) applicable to the declared product category, ("V" = voluntary information);
- in case of incorrect information, immediately correct the issued declarations and notify customers
- on request notify the Nordic IT Organisations of how many declarations have been issued

This version of the ECO declaration shall be used for products announced after July 2000 and can be used for products announced from January 2000.

This Eco declaration for Information Technology (IT) products may only be used after having signed a contract with at least one of the Nordic IT-Organisations, ITB in Denmark, IKT-Norge in Norway or IT-Företagen in Sweden.

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Item	n/a = not applicable	Type of require-ment	Requirement fulfilled Yes	No	n/a
1	**Environmental policy & Environmental management**				
1.1	The manufacturer has a documented environmental policy approved by the management.	O	☒	☐	
1.2	The manufacturer has an environmental management system: ☒ certified by ISO 14001, ☐ EMAS, ☐ other/internal system	O	☒	☐	
1.3	The manufacturer regularly publishes an environmental report.	O	☒	☐	
2	**Environmental conscious design**				
2.1	The product is designed for easy disassembly during recycling. Gluing/welding/painting of different materials has been avoided.	O	☒	☐	
2.2	Large mechanical plastic parts consist of one material or of easy separable materials.	O	☒	☐	
2.3	All plastic parts, heavier than 25g have material codes according to ISO11469 All plastic parts, heavier than 25g have material codes according to ISO 1043 ☒part 1 ☒part 2 ☒part 3 ☐part 4 ☐not known	O V	☐	☒	
2.4	Chemical specification of flame retardant in plastic parts over 25g: Product cover/housing ☐PBB/PBDE ☐TBBPA ☒Other ☐None Other plastic parts ☐PBB/PBDE ☐TBBPA ☒Other ☐None Printed circuit boards ☐PBB/PBDE ☒TBBPA ☐Other ☐None	 O O O	 ← Info ← Info ← Info		
2.5	Product cover/housing material specification Material type Zn coated sheetmetal per ASTM A653 Material type CE Cycloloy C6200 (AS +PC Blend) Material type GE Lexan 500 (PC with 10% glass)	 O O O	← Info ← Info ← Info		
2.6	Electrical cable insulation material specification ☐PVC ☐ Other ☒Not known	V	← Info		
2.7	CFCs, HCFCs, asbestos, PCB and PCT are not present in the product.	O(§)	☒	☐	
2.8	Mercury is not present in the product.	O	☒	☐	
2.9	Cadmium is not present in plastic materials and CRTs (Cathode Ray Tubes).	O	☒	☐	
2.10	Lead is not present in mechanical plastic parts heavier than 25g	O	☒	☐	
2.11	Chloroparaffins with chain length 10-13 C atoms, chlorinated greater than 50% are not present in mechanical plastic parts heavier than 25g.	O	☒	☐	
2.12	Special tools are not needed to upgrade the product.	O	☒	☐	☐
2.13	Processor, memory and cards of various types can be changed/upgraded.	O	☒	☐	☐
2.14	Hard disk and/or floppy drive can be changed/upgraded.	O	☒	☐	☐
3	**Batteries**				
3.1	Batteries, defined as hazardous in the EU Directive 91/157/EEC are not used in the product.	O	☒	☐	
3.2	If batteries, defined as hazardous are used in the product these are labelled according to the EU Directive 93/86/EEC.	O(§)	☐	☐	☒
4	**Energy consumption**				
4.1	Operation, colour: W bl/w: W Stand by/Idle **N/A** W Low energy state/Sleep mode **N/A** W Off mode **<1** W If stand by/idle, reverts to low energy-/sleep-/off mode state in: min.	V O O O V	← Value ← Value ← Value ← Value ← Value		☒ ☒ ☐ ☒
4.2	Automatic 2-sided printing/copying from 1-sided originals.	O	☐	☐	☒
4.3	Information about the energy save function is given in the user manual.	O	☐	☐	☒
4.4	The product meets the requirements of ENERGY STAR®.	O	☐	☐	☒
5	**Noise characteristics**				
5.1	Sound power level: Operation: L_{WAd} **7.06** B L_{WA} B L_{WAI} B Stand by/Idle: L_{WAd} **7.05** B L_{WA} B L_{WAI} B	 V V	 ← Value ← Value		 ☐ ☐
5.2	Sound pressure level, ☐ LpAm, ☒ LpA: Operation: 56.8 dB measurement dist. ☐ 0,5 m, ☐ 1 m, ☒ 1.5 m Stand by/Idle: dB measurement dist. ☐ 0,5 m, ☐ 1 m, ☐ m	 V V	 ← Value ← Value		 ☐ ☒

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Item	n/a = not applicable	Type of require-ment	Requirement fulfilled Yes	No	n/a
6	**Emissions**				
	Copiers, printers, faxes, multifunction products:				
6.1	Dust, measured according to RAL-UZ mg/m^3	O	← Value		☒
6.2	Ozone, measured according to RAL-UZ mg/m^3	O	← Value		☒
6.3	Styrene, measured according to RAL-UZ mg/m^3	V	← Value		☒
	Displays and portable computers:				
6.4	Display/portable computer meets the requirements regarding electromagnetic fields according to: MPR-II ☐, TCO-92/95 ☐, TCO-99 ☐, prEN50279- A ☐, -B ☐, -C ☐	O	☐	☐	☒
7	**Electrical safety, EMC and connection to the telephone network**				
7.1	The product meets the Low Voltage Directive (LVD) regarding electrical safety.	O(§)	☒	☐	☐
7.2	The product meets the EMC Directive regarding electromagnetic compatibility.	O(§)	☒	☐	☐
7.3	If the product is connected to a public telecom network, it must meet the requirements of 1999/5/EC directive.	O(§)	☐	☐	☒
7.4	The product is CE-marked.	O(§)	☒	☐	
8	**Consumable materials (copiers, printers, faxes, multifunction products)**				
8.1	The photo conductor (drum, belt etc.) does not contain cadmium.	O(§)	☐	☐	☒
8.2	The photo conductor does not contain selenium.	O	☐	☐	☒
8.3	If the photo conductor contains selenium there is a system for waste recovery.	O	☐	☐	☒
8.4	Toner/ink (or corresponding) is classified and if required labelled in accordance with EU Directive.	O(§)	☐	☐	☒
8.5	Ink does not contain cadmium.	O(§)	☐	☐	☒
8.6	Paper containing recycled fibres and meeting the requirements of ENV 12281:1996, can be used in the product.	V	☐	☐	☒
9	**Ergonomics**				
9.1	The computer system meets the ergonomic requirements of EN 29241-3, -7, -8.	O	☐	☐	☒
9.2	The product keyboard meets the requirements of ISO 9995 and EN 29241-4.	O	☐	☐	☒
10	**Packaging and documentation**				
10.1	The product package material does not contain heavy metals according to 94/62/EC.	O(§)	☒	☐	☐
10.2	The product package material does not contain CFC/HCFC.	O	☒	☐	☐
10.3	Product packaging: Material type: Corrugated Paper weight: 4.03 kg	O	← Value		☐
	Material type: Polyethylene weight: 0.544 kg	O	← Value		☐
	Material type: Wood Pallet weight: 7.80 kg	O	← Value		☐
	Material type: Polyurethane foam weight: 0.181 kg	O	← Value		☐
10.4	The company participates in/ has its own system for collection and recycling of packaging material.	O(§)	☒	☐	
10.5	Plastic packaging material is marked acc. to DIN6120, ISO11469 or ISO1043-1 to 4.	V	☐	☒	☐
10.6	User and product documentation is printed on non chlorine bleached paper.	V	☒	☐	☐
11	**Recycling**				
11.1	The company has a system for reuse/ recycling of the product.	O	☒	☐	
11.2	Information about the system according to 11.1 can be found in the user manual or as specified under item 12 below.	O	☒	☐	
12	**Additional information**				
	IT Eco Declarations for other HP products can be found on at: www.hp.se/miljo, and www.hp.se/environment for an English version of the environmental web site.				
10.4	HP Sweden is a member of REPA, www.repa.se. For nearest packaging collection point, call REPA: 0200-880310.				
11.2	HP is member of EL-RETUR, a system for take back of electrical and electronic products in Norway www.elretur.no. HP is also member of EL-KRETSEN in Sweden www.el-kretsen.se. For information about take-back in Finland and Denmark, please contact local HP. HP has a free of charge supplies recycling program www.hp.com/recycle.				

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C o m m e n t s a n d e x p l a n a t i o n s :

For complete comments, explanations, terms and conditions, please refer to ECO Declaration Guideline at each IT Association home page: www.sito.se/itmiljodeklaration - www.ikt-norge.no - www.itb.dk

2 Environmental conscious design

2.1 Some examples of environmental conscious design:

- PCBs are not enamelled
- Plastic fittings are not painted or metal-coated
- Metal fitting, cables and PCBs are not plasticised
- Batteries are not installed (soldered) directly on the PCB

Product labelling does not impede recycling

2.4 These flame retardants are:

- decabrombiphenyl CAS no 13654-09-6
- pentabromdiphenyleter CAS no 32534-81-9
- octabromodiphenyleter CAS no 32536-52-0
- decabromodiphenyleter CAS no 1163-19-5

SE: Has announced to notify the EU to prohibit the above mentioned flame retardants.

Most common is TBBPA (Tetrabromobisphenol A).

Applies to all IT products with printed circuit boards. Does not apply to the components on the board.

2.7-2.11 Refers to substance levels which do not exceed natural background levels.

2.7 CFC/HCFC: according to SFS 1995:636, EU-Directive 3093/94/EEC group I, II and VIII and the 1987 Montreal Protocol (September 1997 version). PCB/PCT: according to 1985:837.

2.8 SE: According to SFS 1996:319 mercury is prohibited in relays, level indicators, pressure switches, temperature regulators/ thermostats, electrical switches and contacts for continuos current transmission. Mercury can occur in small amounts in fluorescent tubes and shall after use be treated as hazardous waste.

2.10 SE: The requirement can be found in the Swedish ordinance SFS 1998:944.

2.3, 2.9, 2.10, 2.11 Examples of mechanical plastic parts are product covers/housings and similar construction details.

4 Energy consumption

The energy consumption is given as a mean value during a typical period of time.

4.1 Nordic recommendations for energy efficient products follow the voluntary US EPA system, called ENERGY STAR®. From 1998-01-01 the NUTEK requirement for displays has been incorporated into the new EPA MOU. For more information, see: www.epa.gov/office.html.

5 Noise characteristics

Sound is measured on a basic machine without accessories (e.g. sorter, document feeder).

LWAd = declared A-weighted sound power level rel 1pW.

LWA = measured on one product sample. To compare with LWAd, 0.3 B has to be added to compensate the measurement uncertainty.

LWAI = including impulsive noise according to RAL-UZ62. Measured on one sample. Not comparable with LWAd or LWA.

1B = 10 dB. Observe! This formula can NOT be used to calculate the sound power level to sound pressure level.

Observe! To be able to compare the noise levels from two products, sound power is used. If sound pressure is used, the measurements must be performed according to the same standard, at the same distance and during the same operational conditions.

6 Emissions (Dust, Ozone, VOC)

Copiers, printers, faxes, multifunction products:

6.1-6.3 RAL-UZ is a German standard used for ECO-labelling of products. Does not apply to inkjet printers.

Displays and portable computers:

6.4 Extensive research has not been able to demonstrate any negative health effects caused by electromagnetic fields from visual displays. EU Directive as well as Nordic national regulation exists, but legally binding hygenic limit values do not exist. Since 1986, the market in Northern Europe has demanded visual displays with reduced electromagnetic fields. According to prEN50279 (which is based on the Swedish standard SS4361490), electromagnetic fields are specified in three categories:

PrEN50279 category:	**A**	**B**	**C**
Approximately equivalent to the levels according to	TCO-99	MPR-II	--

Category C has no recommended levels for electrostatic and electrical fields, band I. This category is intended for electrical products, insulation class II without protective earth. The standard has a higher level of requirements on the test laboratory. Additionally it contains a section on measuring electromagnetic fields in the office environment and the inaccuracy of such measurements. Observe that that the criteria can normally only be met if the product is connected to a grounded wall outlet. In year 2000, pr EN 50279, is expected to be adopted as a European Norm (EN).

Applies to visual stand alone displays and portable computers.

7 Electrical safety, EMC and connection to the telecom. network

The product shall meet the applicable EU directives:

Low Voltage Directive (LVD), 73/23/EEC & 93/68/EEC for electrical safety. EMC Directive, 89/336/EEC, for electromagnetic compatibility. If the product is connected to a public telecom network, the product must meet the Directive 1999/5/EC on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity.

The CE-mark is the manufacturer's confirmation to National authorities that the product meets applicable EU-Directives. On request by the authority the manufacturer must be able to present an EC Declaration of Conformity and/or technical file/test report. The eco-declaration does not replace the EC Declaration of Conformity.

9 Ergonomics

9.1 EN29241-3 specifies visual ergonomic requirements for computer systems, including operating system and fonts.

9.2 Applies to standard keyboards, does not apply to portable computer keyboards.

10 Packaging and documentation

10.4 **SE:** The requirements can be found in SFS 1997:185. The company must see to that used packaging is collected and recycled, either by having an own system or being a part of a general system, such as the REPA-register.

11 Recycling

11.1 **SE:** The Swedish regulation (SFS 2000:208) on producer responsibility for electric and electronic products is in force since July 1st 2001. El-Kretsen AB – a service company – has been established by the electrical- and electronic industry to support them in this responsibility. Many IT- and telecom companies are part of this collection system (*elretur*). Other companies have their own systems or contracts with recycling companies.

DK: Regulation in force from December 1st 1999.

NO: Regulation is enforced July 1st 1999.

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